

SEQUENCE LISTING

<110> Recipon, Herve
Sun, Yongming
Chen, Sei-Yu
Liu, Chenghua
Turner, Leah

<120> Compositions and Methods Relating to Lung Specific
Genes and Proteins

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<150> 60/243,461

<151> 2000-10-26

<150> 60/252,055

<151> 2000-11-20

<150> 60/252,496

<151> 2000-11-22

<160> 142

<170> PatentIn Ver. 2.1

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<223> a, c, g or t

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <211> 61
 <212> DNA
 <213> Homo sapiens

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 <211> 198
 <212> DNA
 <213> Homo sapiens

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 <211> 470
 <212> DNA
 <213> Homo sapiens

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<211> 1155
 <212> DNA
 <213> Homo sapiens

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 <222> (1276)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (1278)..(1297)
 <223> a, c, g or t

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<210> 25

<211> 2593

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (378)..(442)

<223> a, c, g or t

<400> 25

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<210> 26

<211> 594

<212> DNA

<213> Homo sapiens

<400> 26

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<212> DNA
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<223> a, c, g or t

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gtgtggatgt gtgttttcag taacctgcgt gtaacgccga ggactggaaa ttagcatggg 540
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
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<210> 28
<211> 553
<212> DNA
<213> Homo sapiens

<400> 28
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agattgtttg ttatgaggag ttctgtttga gccatacaag caatatatcc tttttaaaga 480
aatgtatccg gaatcttagg tgttcattgc tccaagccat gtgcagaata aaaagaaaac 540
aaaaaaciaa aaa 553

<210> 29

<211> 589
 <212> DNA
 <213> Homo sapiens

<400> 29
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 cactctgtct cgattactac atggtgaatt gaagttccag tagagagggg gttgagctga 180
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 aacatcctgg actctggagc ccaagagatg ttaggtttcc attttggagc cattttcttt 360
 gataaataag tagtgaggct gccattcttg tcaaagttga ggaccacaac cttactcatg 420
 aaactgaaag attgtttgtt atgaggagtt ctgtttgagc catacaagca atatatcctt 480
 tttaaagaaa tgtatccgga atcttaggtg ttcattgctc caagccatgt gcagaataaa 540
 aagaaaacaa aaaacaaaaa aaaaaaaaaa aaaaaaaaaa ttggcggtc 589

<210> 30
 <211> 487
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (305)..(374)
 <223> a, c, g or t

<400> 30
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 gaaaatt 487

<210> 31
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 31
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 gtgagtctag gggaaaagga tgatgatgag atttcatgtc gtcgtctgca tccttataaa 180

ggtctcacag tagcctttct aaggaataa ttttgaaacc attgcaactg attgaagcac 240
 ttatctatct tccaagaggg ttaatagtaa ggggtggaggt caaattactt tgagcttgag 300
 ccaagaggaa taaatatagc atggaacca 330

<210> 32
 <211> 574
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (523)
 <223> a, c, g or t

<400> 32
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 ctccctgccca gcaacacctg tgggtccac tgagtgcctg gaagccctgg atggaggaca 180
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 cagcaggaat gcctgagaac aggaaagaat ttgatctgag ggtctgaccc tcaccctgc 360
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 gccttctgga gcctccttc attccaacag ttacatctc ttatttgccc tattggcaat 480
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<210> 33
 <211> 350
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (160)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (164)
 <223> a, c, g or t

<400> 33
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 cgggaccttc agtggaccgg cagggttcca gaggccgcg cgcngccgcc ccgccctcat 180
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ggaggggtgc gctcacgtct gaagtgggag caatgcaccg ggacagggac acctcctagg 300
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<210> 34
<211> 543
<212> DNA
<213> Homo sapiens

<400> 34
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ctgcatggtc ttctctctcc acaacacgca gacactatta gaagtaaaag ccacgtgtcc 180
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tctactcctt ccgggagggt cgcgctcacg tctgaagtgg gagcaatgca ccgggacagg 480
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cac 543

<210> 35
<211> 558
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (180)..(202)
<223> a, c, g or t

<400> 35
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<210> 36
<211> 739
<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (590)

<223> a, c, g or t

<220>

<221> unsure

<222> (595)

<223> a, c, g or t

<220>

<221> unsure

<222> (601)

<223> a, c, g or t

<220>

<221> unsure

<222> (603)

<223> a, c, g or t

<220>

<221> unsure

<222> (610)

<223> a, c, g or t

<220>

<221> unsure

<222> (685)

<223> a, c, g or t

<220>

<221> unsure

<222> (691)

<223> a, c, g or t

<400> 36

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aggggtagtt gacacattta tctcataaca aagaaagaat tcgtagcatn aaaancagat 600

ncnacagatn ctcttttttg aagcgactgt cttcccagaa ccctaaaatc atgcagtgg 660
agcttttagg gaggtagaca aggtnccttt ngccagctgg cccccacgga gcaagaaatg 720
gcatcttgtc tgatggggg 739

<210> 37
<211> 821
<212> DNA
<213> Homo sapiens

<400> 37
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tctgtgttct ctctgataa cttcctattg ccttcttgct tctttaaaaa tcacatattg 240
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tgggctccca gctcctagag ctcaacatgc ctttatcctt tccctcctc cctcagatgg 480
aaacagttct ggcaaaaata tttaaaatag acattataga acttaaagggt gacatagttc 540
aggggtagtt gacacattta tctcataaca aagaaagaat tcgtagcatc aaaaccagat 600
gccacagatt ctcttttttg aagcgactgt cttcccagaa ccctaaaatc atgcagtgg 660
agcttttagg gaggtagaca aggtgccttt ggccagctgg cccccacgga gcaagaaatg 720
gccatcttgt ctgatggggg ccacccgggc cacacccgt tactgttct gacaggatca 780
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<210> 38
<211> 588
<212> DNA
<213> Homo sapiens

<400> 38
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catagatggg ggggaaaaga ttataaagaa attgactaaa aacttggaat ttatttttac 180
ataaaattgt catatttgat tttgcacgtt acaaatttga aaattaaaat agcattagga 240
atagtttatg tttagaaata gatgctttat accaaatagc ttgaagtacc ttggaatagt 300
gatcttacag aatgcagggt tcacatttgc ccctgtatat ttaaatatat tttcccagga 360
tttacacact tttccatata tttaagtaga ggaatataac aataactaca agctacttca 420
tatatctcac atctctactg ccaaagtttg tctaccagcc ttttccagct cacgtcattt 480
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cctatatgga gaaaacagac agaatgtcgt acattagctc taagtagt 588

<210> 39
<211> 580
<212> DNA

JAMES EARL RAY

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cacaggctca	gcagtctaga	catcaacatt	taaactaatt	taaatgtatt	aatcccttct	240
tttttcatgc	aattgcaatt	tccagatatt	taaagatgtg	agcattttta	cacatttgct	300
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ttgtattttc	cagacctgac	ctttgagtca	gaagagagcc	aatttgcaaa	taaaggggtg	420
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tccattctgg	tacagtgagt	cctgcccggt	ttagccattt	gcctataact	gttttactgt	540
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<211> 617

<213> Homo sapiens

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aaaacaaaac	gcacatagaa	cacctacatg	gtgttatfff	cttcaaata	gtgtaata	180
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ttgtattttc	cagacctgac	ctttgagtca	gaagagagcc	aatttgcaaa	taaaggggtg	420
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tccattctgg	tacagtgagt	cctgcccggt	ttagccattt	gcctataact	gttttactgt	540
tctgtgaata	atttttattt	atcttaatat	tattttcatg	cataataact	ataataaaca	600
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<211> 234

<213> Homo sapiens

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agacttaagt	atgttccaag	aaaatatgcc	atttacccta	gagggttgaaa	tataatcaat	180
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<211> 147

<212> DNA
<213> Homo sapiens

<400> 42
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ctgtcccctg gcttttttgt ttgtttt 147

<210> 43
<211> 609
<212> DNA
<213> Homo sapiens

<400> 43
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<210> 44
<211> 538
<212> DNA
<213> Homo sapiens

<400> 44
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<210> 45
<211> 1348
<212> DNA

<213> Homo sapiens

<400> 45

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<210> 46

<211> 237

<212> DNA

<213> Homo sapiens

<400> 46

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acccaagccc ttgaacaata tttttcttga tctttttacc tgctcatgtt tccttatttt 180
gtctgcttat gtggccattt ggcttttctg tggcatagat gaagaagggtg atgactg 237

<210> 47

<211> 503

<212> DNA

<213> Homo sapiens

<400> 47

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cagagaagat gagttaaatt ggaatggact tgaaaacact gatttagttg gatttatgga 180
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<210> 48

<211> 656

<212> DNA

<213> Homo sapiens

<400> 48

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<210> 49

<211> 362

<212> DNA

<213> Homo sapiens

<400> 49

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<210> 50

<211> 3876

<212> DNA

<213> Homo sapiens

<220>
 <221> unsure
 <222> (3450)
 <223> a, c, g or t

<400> 50

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3876

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<210> 51
 <211> 492
 <212> DNA
 <213> Homo sapiens

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492

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<210> 52
 <211> 1151
 <212> DNA
 <213> Homo sapiens

<400> 52

CONFIDENTIAL

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29

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<210> 55

<211> 434

<212> DNA

<213> Homo sapiens

<400> 55

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<210> 56
 <211> 493
 <212> DNA
 <213> Homo sapiens

<400> 56
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<210> 57
 <211> 465
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (288)..(308)
 <223> a, c, g or t

<400> 57
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<210> 58
 <211> 894
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (791)
 <223> a, c, g or t

<400> 58

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<210> 59

<211> 1587

<212> DNA

<213> Homo sapiens

<400> 59

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<210> 60
 <211> 704
 <212> DNA
 <213> Homo sapiens

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<210> 61
 <211> 142
 <212> DNA
 <213> Homo sapiens

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 accctggtgc gtcgcgtaaa tg 142

<210> 62
 <211> 641
 <212> DNA
 <213> Homo sapiens

<400> 62
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 gtagagcggg taggggttga agagttgcga cggaccagct aaaaggggca gcgccggaag 180
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<210> 63

<211> 570

<212> DNA

<213> Homo sapiens

<400> 63

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ctctccacct cctctttaca gcatttgcta gtatcccgcc cagcctgcc gcggacctca 480
cggtttcccg cctccgctaa ctgcacgctt cgcgatgtct tgtactgtat tgcttacct 540
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<210> 64

<211> 643

<212> DNA

<213> Homo sapiens

<400> 64

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cgggacggcc ccgcggcgac caccatttgc ctactgcctt gaccccgcca aaatagggtgc 240
gttgcccgcc cggcggagcg gccggggggc tagggctata ttttgggccc ccttgccttt 300
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gccgcgatcg cgctgtccac gggttttcat atagtagggg gagggggggg gtaagcttcc 420
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cggtttcccg cctccgctaa ctgcacgcta cgcgaacgct tgtactgaat tgcttacct 540
cgtgcgctgg catgtggggc tggaggagat ccaagccatt gacattggtg ttgggaacct 600
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<210> 65

<211> 804

<212> DNA

<213> Homo sapiens

<400> 65
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cgtctattgt tggggcgcat gtaccggtac cgccggttca taatacccta cccacacggt 180
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aatacttcgt ttttagcaatt tatactatgc ttggctaaca agatgctaaa tgccttgac 780
caatgtgaag cggagggggc agca 804

<210> 66
<211> 631
<212> DNA
<213> Homo sapiens

<400> 66
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taaaattaac aggacaccga aataataaga ctccgagact gggggtaatg caagagtcag 180
caggactagc tgccaggaaa agcagcgtga aaagaggtgg tacatgtaaa caaatcttgt 240
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gctaaaatgg acgtgaagt tagaagtaac ctgggcgacg acggcgtata gaaggagcaa 360
tgaaacgagg gacaacgtga ggttgggtgga gcgcgaagcc ggcaagcaaa aggcgggatg 420
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gaggggctga gcaagcgagc tacggagcaa gcgatgagc tgggcggcct tgcggtgtga 540
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ggaattaatt aaataatagc actcgggtag t 631

<210> 67
<211> 604
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (490)
<223> a, c, g or t

<220>

<221> unsure
 <222> (515)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (524)
 <223> a, c, g or t

<400> 67
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 atga 604

<210> 68
 <211> 579
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (507)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (510)
 <223> a, c, g or t

<400> 68
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 cgacgagccg tgcgacgacc gaatattggt gttgaaaatt aacagtataa tatattgttt 180
 aataagccct accgccgacc tgaaagatat agcgacgtac aatttggccg cgacttgat 240
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 cccgacctgg cattgaccac acacaagccc gtttgccctg aacccccggc ccgcctcggc 420
 cttacgcaa aattgataat gaatataaaa caagaagccg cggccacgcc tgacccttgg 480
 atttgaatta cttaattgca cttttgntgn ttaatacgat aagccccaac cgacccatga 540

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579

<210> 69

<211> 621

<212> DNA

<213> Homo sapiens

<400> 69

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tacggccgcg agcccgtagc gggggattaa tgggggggat ggacggattg cccctaccaa 180
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ccaccacctt tacgagtcgc ccggctgcaa cgaacagctt ggtctgccgc gtatatctac 360
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gcagcggttag ctgtctgatg gcggactacc acctggccat gttgaccgac cctcgcatgg 480
tcccccttat gggttatattg cgcttgaacc ccgttgtaat agaggcgcgg gtggcggtta 540
cttgttacgc cgggtgcgacg aaatgcttta attacgtgat ggccactacg tatatgtacg 600
tcgttgacgg aatgaccatg a 621

<210> 70

<211> 507

<212> DNA

<213> Homo sapiens

<400> 70

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taattggcag gcattggtcg ggcttgacgt tgtgaccgac gagacctacg acggcgacga 420
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<210> 71

<211> 683

<212> DNA

<213> Homo sapiens

<400> 71

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caacgccgtt cctactgccg cgggctactg cgtgttgatc gcctttactg cggccttccc 180

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gcccgctata attaccggga tacttccgct actgctctcc actatacaac ttcggacccc 540
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ttggctaacc tcaggatgac catgagctac aaattacaca cggaacaag attctatgtg 660
gaattgtgtg gtgagtcgct gcc 683

<210> 72

<211> 824

<212> DNA

<213> Homo sapiens

<400> 72

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aacgccgttc ctactgccgc gggctactgc gtgttgatcg cctttactgc ggccttccc 180
atgggcatac ccaatatgtc ccgcgtggcg accgcgtcct tctccttgtc actagtctta 240
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acgttgcgcg tggttacatt ccgtaaattg tgcgagactg ccgtagtcca aaggaagatc 420
gtccgctact gtccatatac gaggacggct tatcgcgcg tcccgcattt cctggtagtg 480
cccgtataa ttaccgggat acttccgcta ctgctctcca ctatacaact tcggacccct 540
ttaactgggg gcttaaatg ctgtgtacct ccttcaagta gcaccgattc gctatccagt 600
tggctaacct caggatgacc atgagctaca aattacacac gggaacaaga ttctatgttg 660
aattgtgtgg tgagtcgctg ataattgtgg ctgctgctgg cggcactgcg cacggccgcc 720
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tgctaacccc cgggagtttt tgacgatagg atgttatttg acgc 824

<210> 73

<211> 970

<212> DNA

<213> Homo sapiens

<400> 73

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ctctctatct tccttcgcca cccgatttcg ccttaaattg cattcttcgc cctctgttgt 180
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<210> 74
 <211> 619
 <212> DNA
 <213> Homo sapiens

<400> 74
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 ggatgtaacg gtttcccgcc accgccaact gcacgcttcg cgatgtctac tgtgccgga 180
 attggggagt cagtaactgg gcaggagtgc gggtcacgta aaatcctgct agtttgccga 240
 cgacttagaa aatgcacaac gacagaatgc ctgcccgggg ccaaagtaac caccgggtat 300
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 gaacgcactt gttaggtac cctaatacac acttggggac taccaccac gggaagcacg 480
 ggaataaata gaatgaatta aactttaata tttggcgggg ttgaccccg ggtgggaagt 540
 gccccgacgg aattaaagcg gtaaatntag taagcgcaca aacgcgaatg caaatggggc 600
 ctgtattgat acacacaca 619

<210> 75
 <211> 504
 <212> DNA
 <213> Homo sapiens

<400> 75
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 ggccattttt gttatctttt atttaatggc tgccactgtt tttttcatct cggtcatttt 120
 ctatatcttc aaaagggaga tggaaaaaaa actttgactt caacaagcgc cgaatctggg 180
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 gtggtcctct cttctaaga gcaaggagct ctctgaggtg gaggaggctt gtgaagactt 360
 ccagaaacac tgcaccacc tgaccaagag gtacttttta aggtcattca aactgtcatc 420
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 gtcacatgc ttcaaaagta catg 504

<210> 76
 <211> 1502

<212> DNA
 <213> Homo sapiens

<400> 76
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 aactttgact tcaacaagcg ccgaatctgg gcgctggatt ctagcaatgc tactgaggag 240
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 gt 1502

<210> 77
 <211> 516
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (17)
 <223> a, c, g or t

<400> 77
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gtctttgcta gtctcagcac agcccaagag gagcatcctt catgagccaa ctgaaaaaca 360
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<210> 78

<211> 1500

<212> DNA

<213> Homo sapiens

<400> 78

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<210> 79

<211> 720

<212> DNA

<213> Homo sapiens

<400> 79

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tttgatgta ggtctaaaaa tagtccacag gtctattgct aagagttttt tttcaaagct 180

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ggcattatag tgttttcatg gtttttggtc tatctattca gtttagcaaa cactttacct 240
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ccttactgta aatgaggaat cacagaggat agatacatca gatacgtcaa gttctacaat 360
ttaaacataa cgttcataat taccacttgg ggaatacttt tcctagatgc ttaatagcag 420
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<210> 80

<211> 1040

<212> DNA

<213> Homo sapiens

<400> 80

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<210> 81

<211> 259

<212> DNA

<213> Homo sapiens

<400> 81

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cgtgccgggg accctgtacc gtgctgggaa tgcggtaggc agatctcaag ttgtcaggga 180
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<210> 82
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 82
 Met Lys Tyr Tyr Met Glu Asn Ile Ser Ile Glu Ile Pro Ile Leu Lys
 1 5 10 15
 Cys Ile Val Phe Ser Leu Ile Val Gln Tyr Val His Cys Asn Phe Leu
 20 25 30
 Leu Val

<210> 83
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 83
 Met Tyr Lys Lys Glu Asn Glu Gln Ile Asn Arg Lys Lys Asp Leu Trp
 1 5 10 15
 Phe Asn His Ile Glu Leu Leu His Val Cys Tyr Phe Thr Val Lys Asp
 20 25 30
 Thr Ser Leu Ile Leu Asn
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<210> 84
 <211> 68
 <212> PRT
 <213> Homo sapiens

<220>
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<220>
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<222> (67)

<400> 84
Met Met Met Ala Leu Gly Arg Phe Val Glu Asn Ser Phe His Ala Leu
1 5 10 15
Glu Gln Gly Leu Gly Asn Phe Phe Cys Lys Glu Pro Asn Ile Asn Ile
20 25 30
Leu Asp Xaa Val Gly Gln Val Val Ser Val Ile Ala Thr Gln Ile Cys
35 40 45
Cys Cys Ser Val Asn Gln Pro Glu Leu Ile Phe Xaa Gln Met Ser Xaa
50 55 60
Ala Val Xaa Arg
65

<210> 85
<211> 63
<212> PRT
<213> Homo sapiens

<220>
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<222> (41)

<220>
<221> UNSURE
<222> (47)

<220>
<221> UNSURE
<222> (49)

<400> 85
Met Leu Phe Phe Asp Ile Glu Ile Glu Gln Asp Asp Thr Pro Pro Pro
1 5 10 15
Phe Tyr Phe Ser Ser Tyr Thr Val Lys Lys Ser Tyr Phe His Gly Leu
20 25 30

Leu Ser Val Thr Phe Trp Val Phe Xaa Leu Phe Leu Leu Leu Xaa Leu
35 40 45

Xaa Leu Phe Leu Cys Phe Leu Thr Val Tyr Tyr Glu Phe Ala Val
50 55 60

<210> 86

<211> 20

<212> PRT

<213> Homo sapiens

<400> 86

Met Cys Arg Ser Tyr Gly Phe Ser Phe Ile Arg Val Leu Leu Gly Gly
1 5 10 15

Trp Gln Val Ser
20

<210> 87

<211> 569

<212> PRT

<213> Homo sapiens

<400> 87

Met Leu Lys Glu Trp Ala Ile Lys Gln Gly Ile Leu Leu Lys Val Ala
1 5 10 15

Glu Thr Ile Lys Ser Trp Ile Phe Phe Ser Gln Cys Asn Lys Lys Asp
20 25 30

Asp Leu Leu His Lys Leu Asp Ile Gly Phe Arg Leu Asp Ser Leu His
35 40 45

Thr Ile Leu Gln Gln Glu Val Leu Leu Gln Glu Asp Val Glu Leu Ile
50 55 60

Glu Leu Leu Asp Pro Ser Ile Leu Ser Ala Gly Gln Ser Gln Gln Gln
65 70 75 80

Glu Asn Gly His Leu Pro Thr Leu Cys Ser Leu Ala Thr Pro Asn Ile
85 90 95

Trp Asp Leu Ser Met Leu Phe Ala Phe Ile Ser Leu Leu Val Met Leu
100 105 110

Pro Thr Trp Trp Ile Val Ser Ser Trp Leu Val Trp Gly Val Ile Leu

115	120	125
Phe Val Tyr Leu Val Ile Arg Ala Leu Arg Leu Trp Arg Thr Ala Lys 130 135 140		
Leu Gln Val Thr Leu Lys Lys Tyr Ser Val His Leu Glu Asp Met Ala 145 150 155 160		
Thr Asn Ser Arg Ala Phe Thr Asn Leu Val Arg Lys Ala Leu Arg Leu 165 170 175		
Ile Gln Glu Thr Glu Val Ile Ser Arg Gly Phe Thr Leu Val Ile Ala 180 185 190		
Ala Cys Pro Phe Asn Lys Ala Gly Gln His Pro Ser Gln His Leu Ile 195 200 205		
Gly Leu Arg Lys Ala Val Tyr Arg Thr Leu Arg Ala Asn Phe Gln Ala 210 215 220		
Ala Arg Leu Ala Thr Leu Tyr Met Leu Lys Asn Tyr Pro Leu Asn Ser 225 230 235 240		
Glu Ser Asp Asn Val Thr Asn Tyr Ile Cys Val Val Pro Phe Lys Glu 245 250 255		
Leu Gly Leu Gly Leu Ser Glu Glu Gln Ile Ser Glu Glu Glu Ala His 260 265 270		
Asn Phe Thr Asp Gly Phe Ser Leu Pro Ala Leu Lys Val Leu Phe Gln 275 280 285		
Leu Trp Val Ala Gln Ser Ser Glu Phe Phe Arg Arg Leu Ala Leu Leu 290 295 300		
Leu Ser Thr Ala Asn Ser Pro Pro Gly Pro Leu Leu Thr Pro Ala Leu 305 310 315 320		
Leu Pro His Arg Ile Leu Ser Asp Val Thr Gln Gly Leu Pro His Ala 325 330 335		
His Ser Ala Cys Leu Glu Glu Leu Lys Arg Ser Tyr Glu Phe Tyr Arg 340 345 350		
Tyr Phe Glu Thr Gln His Gln Ser Val Pro Gln Cys Leu Ser Lys Thr 355 360 365		
Gln Gln Lys Ser Arg Glu Leu Asn Asn Val His Thr Ala Val Arg Ser		

370 375 380
 Leu Gln Leu His Leu Lys Ala Leu Leu Asn Glu Val Ile Ile Leu Glu
 385 390 395 400
 Asp Glu Leu Glu Lys Leu Val Cys Thr Lys Glu Thr Gln Glu Leu Val
 405 410 415
 Ser Glu Ala Tyr Pro Ile Leu Glu Gln Lys Leu Lys Leu Ile Gln Pro
 420 425 430
 His Val Gln Ala Ser Asn Asn Cys Trp Glu Glu Ala Ile Ser Gln Val
 435 440 445
 Asp Lys Leu Leu Arg Arg Asn Thr Asp Lys Lys Gly Lys Pro Glu Ile
 450 455 460
 Ala Cys Glu Asn Pro His Cys Thr Val Val Pro Leu Lys Gln Pro Thr
 465 470 475 480
 Leu His Ile Ala Asp Lys Asp Pro Ile Pro Glu Glu Gln Glu Leu Glu
 485 490 495
 Ala Tyr Val Asp Asp Ile Asp Ile Asp Ser Asp Phe Arg Lys Asp Asp
 500 505 510
 Phe Tyr Tyr Leu Ser Gln Glu Asp Lys Glu Arg Gln Lys Arg Glu His
 515 520 525
 Glu Glu Ser Lys Arg Val Leu Gln Glu Leu Lys Ser Val Leu Gly Phe
 530 535 540
 Lys Ala Ser Glu Ala Glu Arg Gln Lys Trp Lys Gln Leu Leu Phe Ser
 545 550 555 560
 Asp His Gly Val Lys Ser Ala Trp Asn
 565

<210> 88
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (7) .. (24)

<400> 88

Met Ser Leu Ser Leu Pro Phe Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Ser Thr Lys Ser Phe Gln Ile
20 25 30

Leu His Thr Gln Phe Phe Leu Val Phe Met Ser Asp Ser Ile Val His
35 40 45

Leu Ser Gln
50

<210> 89

<211> 105

<212> PRT

<213> Homo sapiens

<400> 89

Met Ser Ser Asp Leu Pro Pro Lys Lys Ser Lys Asp Lys Leu Asp Lys
1 5 10 15

Lys Lys Glu Val Val Lys Pro Pro Tyr Pro Lys Ile Arg Arg Ala Ser
20 25 30

Gly Arg Leu Ala Gly Arg Lys Val Phe Val Glu Ile Pro Lys Lys Lys
35 40 45

Tyr Thr Arg Arg Leu Arg Glu Gln Gln Lys Thr Ala Glu Gly Asp Val
50 55 60

Gly Asp Tyr Arg Cys Pro Gln Asp Gln Ser Pro Asp Arg Val Gly Thr
65 70 75 80

Glu Met Glu Pro Val Ser Lys Asn Glu Gly Cys Gln Ala Gly Ala Glu
85 90 95

Leu Glu Asp Leu Ser Lys Lys Ala Gly
100 105

<210> 90

<211> 711

<212> PRT

<213> Homo sapiens

<400> 90

Met Glu Ser Gly Ala Val Leu Leu Glu Ser Lys Ser Ser Pro Phe Asn
 1 5 10 15
 Leu Leu His Glu Met His Glu Leu Arg Leu Leu Gly His Leu Cys Asp
 20 25 30
 Val Thr Val Ser Val Glu Tyr Gln Gly Val Arg Lys Asp Phe Met Ala
 35 40 45
 His Lys Ala Val Leu Ala Ala Thr Ser Lys Phe Phe Lys Glu Val Phe
 50 55 60
 Leu Asn Glu Lys Ser Val Asp Gly Thr Arg Thr Asn Val Tyr Leu Asn
 65 70 75 80
 Glu Val Gln Val Ala Asp Phe Ala Ser Phe Leu Glu Phe Val Tyr Thr
 85 90 95
 Ala Lys Val Gln Val Glu Glu Asp Arg Val Gln Arg Met Leu Glu Val
 100 105 110
 Ala Glu Lys Leu Lys Cys Leu Asp Leu Ser Glu Thr Cys Phe Gln Leu
 115 120 125
 Lys Lys Gln Met Leu Glu Ser Val Leu Leu Glu Leu Gln Asn Phe Ser
 130 135 140
 Glu Ser Gln Glu Val Glu Val Ser Ser Gly Ser Gln Val Ser Ala Ala
 145 150 155 160
 Pro Ala Pro Arg Ala Ser Val Ala Thr Asp Gly Pro His Pro Ser Gly
 165 170 175
 Leu Thr Asp Ser Leu Asp Tyr Pro Gly Glu Arg Ala Ser Asn Gly Met
 180 185 190
 Ser Ser Asp Leu Pro Pro Lys Lys Ser Lys Asp Lys Leu Asp Lys Lys
 195 200 205
 Lys Glu Val Val Lys Pro Pro Tyr Pro Lys Ile Arg Arg Ala Ser Gly
 210 215 220
 Arg Leu Ala Gly Arg Lys Val Leu Val Glu Ile Pro Lys Lys Lys Tyr
 225 230 235 240
 Thr Arg Arg Leu Arg Glu Gln Gln Lys Thr Ala Glu Gly Asp Val Gly
 245 250 255

Asp Tyr Arg Cys Pro Gln Asp Gln Ser Pro Asp Arg Val Gly Thr Glu
 260 265 270
 Met Glu Gln Val Ser Lys Asn Glu Gly Cys Gln Ala Gly Ala Glu Leu
 275 280 285
 Glu Glu Leu Ser Lys Lys Ala Gly Pro Glu Glu Glu Glu Glu Glu
 290 295 300
 Glu Glu Asp Glu Glu Gly Glu Lys Lys Lys Ser Asn Phe Lys Cys Ser
 305 310 315 320
 Ile Cys Glu Lys Ala Phe Leu Tyr Glu Lys Ser Phe Leu Lys His Ser
 325 330 335
 Lys His Arg His Gly Val Ala Thr Glu Val Val Tyr Arg Cys Asp Thr
 340 345 350
 Cys Gly Gln Thr Phe Ala Asn Arg Cys Asn Leu Lys Ser His Gln Arg
 355 360 365
 His Val His Ser Ser Glu Arg His Phe Pro Cys Glu Leu Cys Gly Lys
 370 375 380
 Lys Phe Lys Arg Lys Lys Asp Val Lys Arg His Val Leu Gln Val His
 385 390 395 400
 Glu Gly Gly Gly Glu Arg His Arg Cys Gly Gln Cys Gly Lys Gly Leu
 405 410 415
 Ser Ser Lys Thr Ala Leu Arg Leu His Glu Arg Thr His Thr Gly Asp
 420 425 430
 Arg Pro Tyr Gly Cys Thr Glu Cys Gly Ala Arg Phe Ser Gln Pro Ser
 435 440 445
 Ala Leu Lys Thr His Met Arg Ile His Thr Gly Glu Lys Pro Phe Val
 450 455 460
 Cys Asp Glu Cys Gly Ala Arg Phe Thr Gln Asn His Met Leu Ile Tyr
 465 470 475 480
 His Lys Arg Cys His Thr Gly Glu Arg Pro Phe Met Cys Glu Thr Cys
 485 490 495
 Gly Lys Ser Phe Ala Ser Lys Glu Tyr Leu Lys His His Asn Arg Ile
 500 505 510

His Thr Gly Ser Lys Pro Phe Lys Cys Glu Val Cys Phe Arg Thr Phe
 515 520 525
 Ala Gln Arg Asn Ser Leu Tyr Gln His Ile Lys Val His Thr Gly Glu
 530 535 540
 Arg Pro Tyr Cys Cys Asp Gln Cys Gly Lys Gln Phe Thr Gln Leu Asn
 545 550 555 560
 Ala Leu Gln Arg His Arg Arg Ile His Thr Gly Glu Arg Pro Phe Met
 565 570 575
 Cys Asn Ala Cys Gly Arg Thr Phe Thr Asp Lys Ser Thr Leu Arg Arg
 580 585 590
 His Thr Ser Ile His Asp Lys Asn Thr Pro Trp Lys Ser Phe Leu Val
 595 600 605
 Ile Val Asp Gly Ser Pro Lys Asn Asp Asp Gly His Lys Thr Glu Gln
 610 615 620
 Pro Asp Glu Glu Tyr Val Ser Ser Lys Leu Ser Asp Lys Leu Leu Ser
 625 630 635 640
 Phe Ala Glu Asn Gly His Phe His Asn Leu Ala Ala Val Gln Asp Thr
 645 650 655
 Val Pro Thr Met Gln Glu Asn Ser Ser Ala Asp Thr Ala Cys Lys Ala
 660 665 670
 Asp Asp Ser Val Val Ser Gln Asp Thr Leu Leu Ala Thr Thr Ile Ser
 675 680 685
 Glu Leu Ser Glu Leu Thr Pro Gln Thr Asp Ser Met Pro Thr Gln Leu
 690 695 700
 His Ser Leu Ser Asn Met Glu
 705 710

<210> 91
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (27)

<400> 91

Met Phe Arg Lys Gly Met Leu Pro Leu Asp Met Glu Ala Ser Leu Asn
1 5 10 15

Cys Tyr Ile Ser Leu Arg Lys Leu Met Arg Xaa Met Pro Glu Lys Glu
20 25 30

Asp Ser Asn Lys Glu Asp Lys Arg Lys Thr Asp Lys Ser Ile Glu Phe
35 40 45

Leu

<210> 92

<211> 18

<212> PRT

<213> Homo sapiens

<400> 92

Met Ala Glu Asp Lys Leu Pro Ser Arg Val Gly Asn Leu Asn Pro Lys
1 5 10 15

Ser Leu

<210> 93

<211> 36

<212> PRT

<213> Homo sapiens

<400> 93

Met Leu Trp Phe Gln Pro Gln His Pro Ala Lys Val Ser Trp Val Ile
1 5 10 15

Gly Thr Leu Leu Thr Cys Thr Gly Cys Lys Pro Leu Ile Thr Ser Ser
20 25 30

Asp Gly Gln Thr
35

<210> 94

<211> 77

<212> PRT

<213> Homo sapiens

<400> 94

Met Phe Cys Lys Trp Ser Ala Gln Leu Ala Arg Phe Pro Ser Ala Cys
1 5 10 15

Gly Gln Arg Val Val His Arg Pro Asp Arg Ser Phe Leu Ala Thr Leu
20 25 30

Glu Leu Cys Leu Pro Pro Gln Leu Pro Ser Phe Cys Tyr Cys Ile Ile
35 40 45

Asn Ile Ser Pro Leu Glu Lys Met Tyr Val Gln Phe Leu Gln Arg Leu
50 55 60

His Arg Gly Gly Pro Thr Leu Asn Glu Leu Thr Leu Thr
65 70 75

<210> 95

<211> 20

<212> PRT

<213> Homo sapiens

<400> 95

Met Ser Ser Ile Tyr Pro Met Pro Leu Glu Pro Phe Leu Val Ile Val
1 5 10 15

Ser Leu Cys Tyr
20

<210> 96

<211> 52

<212> PRT

<213> Homo sapiens

<400> 96

Met Arg Ile Thr Phe Phe Thr Arg Leu Thr Leu Lys Gly Lys Thr His
1 5 10 15

Lys Cys His Thr Thr Ile Asn Val Thr Leu Tyr Ser Cys Asn Trp Ile
20 25 30

Ser Asp Tyr Ser His Lys Pro Leu Ser Leu Leu Leu Gln Leu Met Gly
35 40 45

Gly His Phe Asp
50

<210> 97
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 97
 Met Thr Val Ser Pro Val Phe Leu Met Ala Asn Asn Asn Asn Lys Ser
 1 5 10 15
 Asn Leu Phe Thr Tyr Gln Phe Glu Pro Pro Asp Leu Leu Leu Val Leu
 20 25 30
 His Pro Ser Ile Lys Lys
 35

<210> 98
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 98
 Phe Leu Leu Leu Phe Phe Ile Cys Leu Phe Phe Tyr Glu Thr Glu Ser
 1 5 10 15
 Cys Ser Val Ala Gln Ala Gly Val Gln Trp Arg Asp Leu Gly Ser Leu
 20 25 30
 Gln Pro Leu Pro Pro Trp Phe Lys Ala Phe Ser Cys Leu Ser Leu Pro
 35 40 45
 Ser Ser Trp Asp Tyr Arg
 50

<210> 99
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 99
 Met Phe Leu Asp Ile Phe Asn Ser Phe Arg Cys Ile Ala Leu Ser Ala
 1 5 10 15
 Ser Gly Leu Leu His Lys Ser Ile Ser Ser Glu Leu Thr Leu Trp Ile
 20 25 30

Pro Phe Ser Lys Leu Glu Gly Val Ile Lys Phe Leu Ile Ile Arg Val
 35 40 45

Leu Val Ile
 50

<210> 100
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 100
 Met Val Ser Lys Asp Pro Ser His Val Gln Asp Val Ser Ser Ser Ala
 1 5 10 15

Leu His Leu His Ile His Cys His Ser
 20 25

<210> 101
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 101
 Met Val Phe Gln Tyr Met Gln Pro Ser Ser Ser Lys Leu Arg Thr Phe
 1 5 10 15

Leu Ser Pro Pro Thr Arg Ser Pro Met His Met Gly Pro Ser Leu Pro
 20 25 30

Arg Pro Pro Asn Pro Ser Pro Ala Leu Ile Val Gly His Trp Pro Val
 35 40 45

Leu Gly His Ser Asn Arg Ser Arg Ala Thr Leu Thr Val Cys Val Phe
 50 55 60

Gly Pro Arg Val Ala Val Cys Met Arg Ser His Ala
 65 70 75

<210> 102
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 102

Met Ser Lys Val Val Val Leu Asn Phe Asp Lys Asn Gly Ser Leu Thr
1 5 10 15

Thr Tyr Leu Ser Lys Lys Met Ala Pro Lys Trp Lys Leu His Ile Ser
20 25 30

Trp Ala Pro Glu Ser Arg Met Leu Cys Ser Trp
35 40

<210> 103

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (27)..(50)

<400> 103

Met Tyr Ser Ser Leu Phe Val Lys Leu Leu His Val Tyr Ile Ile Phe
1 5 10 15

Leu Thr Glu Gly Phe Phe Arg Tyr Tyr Phe Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Asp Phe Leu
50

<210> 104

<211> 49

<212> PRT

<213> Homo sapiens

<400> 104

Met Lys Ser His His His Pro Phe Pro Leu Asp Ser Pro Val Pro Pro
1 5 10 15

Leu Leu Tyr Leu Ile Leu Ser Ser Pro Gln Ser Arg Asn Ile Ile Arg
20 25 30

Leu Ala Asn Thr Arg Gln Lys Leu Cys Met Cys Ile Phe Trp Glu Lys
35 40 45

Val

<210> 105

<211> 80

<212> PRT

<213> Homo sapiens

<400> 105

Met Gln Pro Gly Phe Leu Arg Ser Lys Phe Leu Ser Gln Ala Cys Pro
1 5 10 15

Glu Cys Lys Pro Leu Ser Ser Ile Gln Gly Phe Gln Ala Leu Ser Gly
20 25 30

Thr His Arg Cys Cys Trp Gln Gly Glu Glu Gly Ser Thr Ser Phe Gln
35 40 45

Leu Ser Cys Leu Leu Leu Val Leu Gln Gln Pro Val Leu Pro Leu Cys
50 55 60

Leu Cys Thr Cys Lys Ser Pro Cys Leu Asn Cys Leu Pro Gln Leu Ala
65 70 75 80

<210> 106

<211> 56

<212> PRT

<213> Homo sapiens

<400> 106

Met Ser Gln Pro Asp Phe Gln Ala Glu Leu Asp Trp Asn Arg His Gly
1 5 10 15

Leu Gly Gly Val Pro Val Pro Val His Cys Ser His Phe Arg Arg Glu
20 25 30

Arg Asp Pro Pro Gly Arg Ser Arg Gly Arg Ala Gly Thr Ala Leu Gly
35 40 45

Leu Leu Thr Trp Gln Ala Gln Gln
50 55

<210> 107
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 107
 Met Thr Trp Cys Tyr Pro Thr Thr Val His Ile Leu Gly Gln Pro Leu
 1 5 10 15
 Ser Leu Glu Pro Val Leu Glu Gly Arg Met Ser Met Leu Asn Leu Ser
 20 25 30
 Leu Ile Gln Asp Asn Val Ala Ser Ile Leu Asp Ala Phe Ser Pro Leu
 35 40 45
 Phe Ser Glu Cys Leu Phe Thr Ser Glu Phe Thr Arg Arg Lys Ser Leu
 50 55 60
 Gly Glu Arg Val Gly Arg Gly Pro Leu Gly Pro Glu Asn Ser Trp Pro
 65 70 75 80
 Gly Gly Ala His Leu Trp Phe Phe Trp Leu Cys Asp Arg Val Thr Thr
 85 90 95
 Arg Gly

<210> 108
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 108
 Met His Leu Pro Leu Ile Phe Pro Ser Ser Ser Ser Tyr Leu Leu
 1 5 10 15
 Ile Pro Pro Gly Leu Ser Val Leu Arg Gly Leu Glu Pro Leu Gly Tyr
 20 25 30
 Thr Asp Gly His Pro Thr Trp Glu Glu His His Val Ser Gly Asp Leu
 35 40 45
 Gly Ser Pro Cys Ser Val Phe Leu Ser Val Gly Ser Gln Leu Leu Glu
 50 55 60
 Leu Asn Met Pro Leu Ser Phe Ser Leu Leu Pro Gln Met Glu Thr Val

[illegible]

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<210> 109
<211> 64
<212> PRT
<213> Homo sapiens
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Tyr Asn Leu Phe Pro Pro Ile Tyr Val Pro Lys Cys Asn Ser Ser Ser
20 25 30

Asp Arg Lys Leu Lys His Lys Leu Ile Cys Met Lys Cys Phe Lys Ser
50 55 60

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<210> 110
<211> 35
<212> PRT
<213> Homo sapiens
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Ile Gly Ser Leu Leu Thr Gln Arg Ser Gly Leu Glu Asn Thr Ile Gly
20 25 30

Leu Lys Arg
35

<210> 111

<211> 25
<212> PRT
<213> Homo sapiens

<400> 111
Met Ala Tyr Phe Leu Gly Thr Tyr Leu Ser Leu Ser Tyr Lys Phe Phe
1 5 10 15

Leu Ser Ile Tyr Phe Ile Lys Met Thr
20 25

<210> 112
<211> 18
<212> PRT
<213> Homo sapiens

<400> 112
Met Ser Ala Ile Gln Thr Asp Arg Phe Leu Ser Ser Val Glu Met Arg
1 5 10 15

Leu Phe

<210> 113
<211> 128
<212> PRT
<213> Homo sapiens

<400> 113
Gly Thr Val Val Gly Val Asp Glu Ser Thr Ala Phe Ser Trp Pro Val
1 5 10 15

Cys Asp Met Cys Gly Asn Gly Arg Leu Glu Gln Arg Pro Glu Asp Arg
20 25 30

Gly Ala Phe Ser Cys Gly Asp Cys Ser Arg Val Val Thr Ser Pro Val
35 40 45

Leu Lys Arg His Leu Gln Val Phe Leu Asp Cys Arg Ser Arg Pro Gln
50 55 60

Cys Arg Val Lys Val Lys Leu Leu Gln Arg Ser Ile Ser Ser Leu Leu
65 70 75 80

Arg Phe Ala Ala Gly Glu Asp Gly Val Ser Ala Gly Gly Pro Ala Gln
85 90 95

Gly Ala Ala His Ser Val Ala Cys Met Ser Asn Ser Ser Pro Glu Glu
 100 105 110

Ala Pro Thr Pro Lys Cys Val Leu Leu Gln Pro Ile Pro Leu Gly Ser
 115 120 125

<210> 114

<211> 79

<212> PRT

<213> Homo sapiens

<400> 114

Met Val Ala Leu Gly Ala Ser Thr His His Leu Thr Ser Ala Arg Phe
 1 5 10 15

Val Leu Glu Glu Gly Gly Phe Leu Arg Asp Gly Gly Leu Leu Gly Lys
 20 25 30

Ala Lys Gly Cys Ile Ala Ala Glu Arg Phe Glu Pro Gln Phe Gly Gly
 35 40 45

His Val Leu Cys Pro Ala Pro Pro Ser Leu Gly Arg Arg Asn Arg Leu
 50 55 60

Leu Val Lys Trp Glu Ile Gly Phe Pro Gly Ala Pro Leu Arg Pro
 65 70 75

<210> 115

<211> 18

<212> PRT

<213> Homo sapiens

<400> 115

Met Phe Pro Tyr Phe Val Cys Leu Cys Gly His Leu Ala Phe Leu Trp
 1 5 10 15

His Arg

<210> 116

<211> 66

<212> PRT

<213> Homo sapiens

<400> 116

Met Leu Ser Ala Gln Ile Gln Leu Ala Thr Phe Tyr Cys Thr Thr His
1 5 10 15

Thr Cys Asn Ala Val Tyr Leu Lys Thr Asn Leu Lys Glu Met Glu Asn
20 25 30

Arg Lys Thr Phe Ser Pro Val Asn Phe Tyr Lys Ser Gln Glu Gly Phe
35 40 45

His Tyr Lys Val Gly Ile Thr Asn Ser Arg Gly Lys Lys Val Arg Asn
50 55 60

Lys Asp
65

<210> 117

<211> 20

<212> PRT

<213> Homo sapiens

<400> 117

Met Ile Ser Ile Lys Lys Gln Val Leu Tyr Leu Cys Phe Thr Gln Asn
1 5 10 15

Lys Ile Leu Val
20

<210> 118

<211> 595

<212> PRT

<213> Homo sapiens

<400> 118

Met Lys Phe Phe Ser Tyr Ile Leu Val Tyr Arg Arg Phe Leu Phe Val
1 5 10 15

Val Phe Thr Val Leu Val Leu Leu Pro Leu Pro Ile Val Leu His Thr
20 25 30

Lys Glu Ala Glu Cys Ala Tyr Thr Leu Phe Val Val Ala Thr Phe Trp
35 40 45

Leu Thr Glu Ala Leu Pro Leu Ser Val Thr Ala Leu Leu Pro Ser Leu
 50 55 60
 Met Leu Pro Met Phe Gly Ile Met Pro Ser Lys Lys Val Ala Ser Ala
 65 70 75 80
 Tyr Phe Lys Asp Phe His Leu Leu Leu Ile Gly Val Ile Cys Leu Ala
 85 90 95
 Thr Ser Ile Glu Lys Trp Asn Leu His Lys Arg Ile Ala Leu Lys Met
 100 105 110
 Val Met Met Val Gly Val Asn Pro Ala Trp Leu Thr Leu Gly Phe Met
 115 120 125
 Ser Ser Thr Ala Phe Leu Ser Met Trp Leu Ser Asn Thr Ser Thr Ala
 130 135 140
 Ala Met Val Met Pro Ile Ala Glu Ala Val Val Gln Gln Ile Ile Asn
 145 150 155 160
 Ala Glu Ala Glu Val Glu Ala Thr Gln Met Thr Tyr Phe Asn Gly Ser
 165 170 175
 Thr Asn His Gly Leu Glu Ile Asp Glu Ser Val Asn Gly His Glu Ile
 180 185 190
 Asn Glu Arg Lys Glu Lys Thr Lys Pro Val Pro Gly Tyr Asn Asn Asp
 195 200 205
 Thr Gly Lys Ile Ser Ser Lys Val Glu Leu Glu Lys Asn Ser Gly Met
 210 215 220
 Arg Thr Lys Tyr Arg Thr Lys Lys Gly His Val Thr Arg Lys Leu Thr
 225 230 235 240
 Cys Leu Cys Ile Ala Tyr Ser Ser Thr Ile Gly Gly Leu Thr Thr Ile
 245 250 255
 Thr Gly Thr Ser Thr Asn Leu Ile Phe Ala Glu Tyr Phe Asn Thr Arg
 260 265 270
 Tyr Pro Asp Cys Arg Cys Leu Asn Phe Gly Ser Trp Phe Thr Phe Ser
 275 280 285
 Phe Pro Ala Ala Leu Ile Ile Leu Leu Leu Ser Trp Ile Trp Leu Gln
 290 295 300

Trp Leu Phe Leu Gly Phe Asn Phe Lys Glu Met Phe Lys Cys Gly Lys
 305 310 315 320
 Thr Lys Thr Val Gln Gln Lys Ala Cys Ala Glu Val Ile Lys Gln Glu
 325 330 335
 Tyr Gln Lys Leu Gly Pro Ile Arg Tyr Gln Glu Ile Val Thr Leu Val
 340 345 350
 Leu Phe Ile Ile Met Ala Leu Leu Trp Phe Ser Arg Asp Pro Gly Phe
 355 360 365
 Val Pro Gly Trp Ser Ala Leu Phe Ser Glu Tyr Pro Gly Phe Ala Thr
 370 375 380
 Asp Ser Thr Val Ala Leu Leu Ile Gly Leu Leu Phe Phe Leu Ile Pro
 385 390 395 400
 Ala Lys Thr Leu Thr Lys Thr Thr Pro Thr Gly Glu Ile Val Ala Phe
 405 410 415
 Asp Tyr Ser Pro Leu Ile Thr Trp Lys Glu Phe Gln Ser Phe Met Pro
 420 425 430
 Trp Asp Ile Ala Ile Leu Val Gly Gly Gly Phe Ala Leu Ala Asp Gly
 435 440 445
 Cys Glu Glu Ser Gly Leu Ser Lys Trp Ile Gly Asn Lys Leu Ser Pro
 450 455 460
 Leu Gly Ser Leu Pro Ala Trp Leu Ile Ile Leu Ile Ser Ser Leu Met
 465 470 475 480
 Val Thr Ser Leu Thr Glu Val Ala Ser Asn Pro Ala Thr Ile Thr Leu
 485 490 495
 Phe Leu Pro Ile Leu Ser Pro Leu Ala Glu Ala Ile His Val Asn Pro
 500 505 510
 Leu Tyr Ile Leu Ile Pro Ser Thr Leu Cys Thr Ser Phe Ala Phe Leu
 515 520 525
 Leu Pro Val Ala Asn Pro Pro Asn Ala Ile Val Phe Ser Tyr Gly His
 530 535 540
 Leu Lys Val Ile Asp Met Val Lys Ala Gly Leu Gly Val Asn Ile Val
 545 550 555 560

Gly Val Ala Val Val Met Leu Gly Ile Cys Thr Trp Ile Val Pro Met
565 570 575

Phe Asp Leu Tyr Thr Tyr Pro Ser Trp Ala Pro Ala Met Ser Asn Glu
580 585 590

Thr Met Pro
595

<210> 119
<211> 53
<212> PRT
<213> Homo sapiens

<400> 119
Met Gly Ile Cys Phe Cys Thr Cys Cys Lys Arg Lys Ile Val Lys Leu
1 5 10 15

Gln Glu Thr Lys Glu Lys Gly Lys Glu Glu Arg Lys Gly Phe Gly Ile
20 25 30

Leu Leu Lys Lys Phe Leu Tyr Leu Lys Arg Phe His Gln Cys Glu Phe
35 40 45

Pro Asn Leu Val Ile
50

<210> 120
<211> 88
<212> PRT
<213> Homo sapiens

<400> 120
Met Phe Val Thr Ala Phe Ala Ser Asn Pro Pro Thr Pro Ala Ala Asp
1 5 10 15

Leu Thr Val Cys Arg Leu Arg Gln Leu His Ala Thr Arg Ser Val Val
20 25 30

Leu Asn Cys Leu Pro Thr Cys Ala Arg Val Asn Ile Trp Gly Val Gly
35 40 45

Gly Trp Val Gly Gly Gly Gln Arg Glu Glu Arg Gly Gly Val Cys Val
50 55 60

Gly Cys Gly Ala Arg Val Glu Pro Leu Met Ile Lys Asp Ile Ile Gly

65 70 75 80
 Pro Asp Leu Ile Tyr Gly Arg Val Pro Arg Leu Leu Ser Cys Ser Pro
 85 90 95
 Leu Arg Gln Val Ser Ala Ala Cys Ala Gly Phe Arg Pro Gln Ala Tyr
 100 105 110
 Pro Pro Leu Ser Cys Gly Thr Ala Pro Thr Ser Pro His His Ile Pro
 115 120 125
 Leu Gly Cys Arg Gly Arg
 130

<210> 125
 <211> 199
 <212> PRT
 <213> Homo sapiens

<400> 125
 Pro Thr Ser Cys Ala Ile Ala Ile Pro Ala Gly Pro Asp Leu Arg Pro
 1 5 10 15
 Cys Pro Pro Phe Ala Ala Ala Ala Leu Pro Ala Gly Arg Phe Pro Pro
 20 25 30
 Leu Ala Pro Val Leu Gly Arg Arg Pro Thr Pro Pro Phe Pro Val Tyr
 35 40 45
 Gly Pro Tyr Ala Pro Pro Ser His Pro Pro Trp Leu Pro Gly Pro Leu
 50 55 60
 Ala Val Thr Pro Pro Phe Pro Thr Ala Thr Leu Thr Leu Trp Ala Ser
 65 70 75 80
 Pro Arg Ala Pro Trp Pro Leu Ala Ala Val Val Val Phe Pro Phe His
 85 90 95
 Gln Ser Pro Phe Ser Phe Gln Pro Gly Ser Ser Arg Arg Pro Pro Val
 100 105 110
 Gln Leu Pro Ser Val Pro Pro Ser Pro Leu Pro Arg Ser Pro Leu Cys
 115 120 125
 Arg Gly Ser Ala Thr Pro Ser Pro Pro Pro Ser Pro Leu Ala Phe Ala
 130 135 140

<213> Homo sapiens

<400> 128

Met Leu Thr Met Ala Pro Pro Tyr Phe Ser Pro Ser Pro Pro Pro Pro
1 5 10 15

Phe Val Leu Ala Arg Cys Pro Gly Pro Pro Gly Ala Phe Val Leu His
20 25 30

Leu Pro Phe His His Ser Ser Thr Phe Ser Phe Gly His Leu Pro Pro
35 40 45

Leu Ser Ser Pro Arg Phe Val Phe Met Phe Pro Ser Cys Pro Val Leu
50 55 60

Ser Leu Phe Leu Ile Lys Phe Cys Thr Ala Pro Ser Gly Ala Ala Pro
65 70 75 80

Phe Ser Trp Ser Val Ala Thr Leu Gln Pro Leu Pro Ala Leu Arg Pro
85 90 95

Leu Phe Pro Pro Leu His Val Leu Val Ser Leu Ser Val Pro His Ala
100 105 110

Arg

<210> 129

<211> 59

<212> PRT

<213> Homo sapiens

<400> 129

Met Lys Thr Arg Gly Gln Arg Asp Arg Gly Met Pro Thr Ser Val Gly
1 5 10 15

Gly Glu Gly Gly Phe Thr Ala Asn Pro Val Arg His Arg Trp Arg Gly
20 25 30

Lys Ala Ala Gln Asn Ile Ala Leu Ala Pro Arg Arg Val Arg Arg Ala
35 40 45

Gly Asn Ala Pro Ile Leu Ala Gly Ser Arg Gln
50 55

<210> 130

<211> 58
 <212> PRT
 <213> Homo sapiens

<400> 130
 Met Tyr Arg Tyr Arg Arg Phe Ile Ile Pro Tyr Pro His Val Gly Cys
 1 5 10 15
 Arg Tyr Pro Leu His Phe Asp Thr Arg Cys Cys Ala Ser Ile Met Val
 20 25 30
 Ile Thr Cys Phe Cys Val Leu Val Leu Asn Asn Tyr Leu Met Leu Phe
 35 40 45
 Ala Phe Ile Phe Asp Ile Cys Leu Gln Leu
 50 55

<210> 131
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 131
 Met Leu Glu Asn Cys Glu Ile Phe Cys Gly Ala Ala Trp Ala Gln Leu
 1 5 10 15
 Leu Lys Trp Thr Leu Lys Leu Glu Val Thr Trp Ala Thr Thr Ala Tyr
 20 25 30
 Arg Arg Ser Asn Glu Thr Arg Asp Asn Val Arg Leu Val Glu Arg Glu
 35 40 45
 Ala Gly Lys Gln Lys Ala Gly Trp Thr
 50 55

<210> 132
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 132
 Met Tyr Phe Gln Ser Pro Asn Val Leu Thr Pro Pro Gly Phe Leu Thr
 1 5 10 15
 Trp Tyr Phe Val Tyr Lys Arg Gly His Gln Val Ala Ser Ser Ser Pro
 20 25 30

Val Met Leu Ser Arg His Val Arg Gln Leu Val Arg Leu Pro His Tyr
 35 40 45

Phe Gln His Tyr Leu Ala His Cys Pro Ser Phe Tyr Ala Pro Val Leu
 50 55 60

Leu Ser Phe Leu Phe Thr Leu Phe Tyr Pro Leu Pro Leu Pro Pro Ala
 65 70 75 80

Ile Gly Phe Arg Ile Ala Asp
 85

<210> 133

<211> 24

<212> PRT

<213> Homo sapiens

<400> 133

Met Val Arg Leu Ile Leu Leu Ile Met Arg Tyr Asn Tyr Thr Ala Asn
 1 5 10 15

Val Pro Pro Thr Pro Thr Trp His
 20

<210> 134

<211> 78

<212> PRT

<213> Homo sapiens

<400> 134

Met Val Gly Ser Glu Arg Thr Cys Val Gly Arg Arg Arg Arg Arg
 1 5 10 15

Asp Asp His Leu Pro Asp Arg Pro Gly Arg Arg Leu Pro Ile Arg Ala
 20 25 30

Pro Val Val Leu His His Leu Tyr Glu Ser Pro Gly Cys Asn Glu Gln
 35 40 45

Leu Gly Leu Pro Arg Ile Ser Thr His Gln Ile Arg Leu Pro Gly Leu
 50 55 60

Lys Arg Asp Ile Arg Arg Cys Gly Leu Arg Arg Arg Gln Arg
 65 70 75

<210> 135
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 135
 Met Gln His Ile Arg Arg Thr Arg Arg Cys Arg Arg Ile Arg Pro Ile
 1 5 10 15
 Arg Ser Ile Arg Gln Ala Arg Cys Gln Arg Arg Arg Arg Arg Arg
 20 25 30
 Ser Arg Arg Ser Gln Arg Gln Ala Arg Pro Met Pro Ala Asn
 35 40 45

<210> 136
 <211> 145
 <212> PRT
 <213> Homo sapiens

<400> 136
 Met Gly Ile Pro Asn Met Ser Arg Val Ala Thr Ala Ser Phe Ser Leu
 1 5 10 15
 Ser Leu Val Leu Leu Ala Ile Ile Leu Pro Val Ser Ala Thr Thr Ala
 20 25 30
 Thr Leu Leu Ala Pro Ile Ala Ala Ala Leu Thr Val Val Ile Thr Ile
 35 40 45
 Ala Thr Leu Ala Ser Ile Thr Leu Val Leu Pro Leu Thr Leu Arg Val
 50 55 60
 Val Thr Phe Arg Lys Cys Cys Glu Thr Ala Val Val Gln Arg Lys Ile
 65 70 75 80
 Val Arg Tyr Cys Pro Tyr Thr Arg Thr Ala Tyr Arg Gly Val Pro His
 85 90 95
 Phe Leu Val Val Pro Ala Ile Ile Thr Gly Ile Leu Pro Leu Leu Leu
 100 105 110
 Ser Thr Ile Gln Leu Arg Thr Pro Leu Thr Ala Ala Leu Asn Cys Cys
 115 120 125
 Val Pro Pro Ser Ser Ser Thr Asp Ser Leu Ser Ser Trp Leu Thr Ser

130

135

140

Gly

145

<210> 137

<211> 74

<212> PRT

<213> Homo sapiens

<400> 137

Met Gly Ala Thr Ala Ala Leu Pro Ala Val Met Ala Tyr Pro Leu Gly

1

5

10

15

Gly Lys Thr Phe Asp Gly Pro Arg Ala Gly Thr Gly Pro Leu Met Leu

20

25

30

Tyr Ile Thr Gln Phe Val Ile Ser Pro Ala Ala Ala Ile Leu Leu Thr

35

40

45

Thr Ser Ala Ala Ile Val Ile Thr Ala Leu Phe Ser Ala Ala Ala Phe

50

55

60

Gly Val Val Phe Val Leu Cys Phe Gly Gly

65

70

<210> 138

<211> 50

<212> PRT

<213> Homo sapiens

<400> 138

Met Ser Thr Val Pro Glu Ile Gly Glu Ser Val Thr Gly Gln Glu Cys

1

5

10

15

Gly Ser Arg Lys Ile Leu Leu Val Trp Arg Arg Leu Arg Lys Cys Thr

20

25

30

Thr Thr Glu Cys Leu Pro Gly Ala Lys Val Thr Thr Gly Tyr Tyr Lys

35

40

45

Arg Lys

50

<210> 139

<211> 92
 <212> PRT
 <213> Homo sapiens

<400> 139
 Met Thr Leu Lys Ser Thr Ser Trp Ser Gly Gly Cys Ser Val Leu Gly
 1 5 10 15
 Ser Leu His Lys Pro Pro Pro Pro Gln Arg Ala Pro Cys Ser Leu Glu
 20 25 30
 Glu Arg Thr Thr Val Leu Gly Gln Glu Arg Pro Phe Ser Tyr Ser Trp
 35 40 45
 Thr Met Asp Arg Lys Gln Leu Gly Ala Asp Phe Leu Cys Ala Thr Cys
 50 55 60
 Gln Arg Leu Leu Ser Ser Ile Ala Arg Ile Gln Arg Pro Asp Ser Ala
 65 70 75 80
 Leu Val Glu Val Lys Val Phe Phe Pro Ser Pro Phe
 85 90

<210> 140
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 140
 Met Arg Val Ile Met Leu Gln Ser Thr Cys Ile Arg Leu His Asp Leu
 1 5 10 15
 Arg Lys Val Asp Ser Val Thr Leu Lys Ser Ser Ile Leu Glu Arg Arg
 20 25 30
 Asn Met Leu Phe Asp Asp Ile Ala Gln Lys Leu Val Glu Ile Ser Leu
 35 40 45
 Glu Leu Glu Met Ser Arg Ala Ser His Gln Asn Val Leu Lys Asn
 50 55 60

<210> 141
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 141

Met Phe Pro Phe Val Cys Arg Ser Lys Asn Ser Pro Gln Val Tyr Cys
1 5 10 15

<210> 142

<211> 30

<212> PRT

<213> Homo sapiens

<400> 142

Met Asn Glu Ala Val Ala Lys Trp Ala Gln Pro Gly Arg Leu Pro His
1 5 10 15

Ile Pro Arg Trp Leu Ser Cys Gln Leu Trp Val Ser Arg Thr
20 25 30

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